

## ABSTRACT

A wireless transmission system for conducting data transmission over a wireless field in which data transmission slots of a fixed size are periodically allocated to the wireless field is provided that prevents backup of wireless send queue members, thereby enabling efficient utilization of the wireless transmission medium. The wireless transmission system includes a memory for retaining a wireless send queue whose members are transmission data awaiting transmission, linking means for linking multiple transmission data to form members of the wireless send queue, wireless send means for loading a wireless send queue member output from the memory in a data transmission slot; and control means responsive to output of a wireless send queue member from the memory for controlling retention of a next wireless send queue member in the memory.

A1 F1 R1 D1 S1 E1 M1 P1 C1